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*Fig.  
the first*



*. Blackwell, delin et Sculp.*



III. *A Letter from Edward Nourse, F. R. S. Surgeon to St. Bartholomew's Hospital, to the President and Fellows of the ROYAL SOCIETY, giving an Account of several Stones found in Bags formed by a protrusion of the Coats of the Bladder, as appeared upon opening the Body of one Mr. Gardiner.*

Read Jan. 7.  
1741-2.

**P**ERmit me to lay before you the Bladder of Mr. *Gardiner*, who was, the 5th of *March* 1739. before the Trustees appointed by the Parliament to inquire into the Efficacy of Mrs. *Stephens's* Medicines, produced as an Instance, where they had been effectual in dissolving the Stone in the Bladder.

Mr. *Gardiner* was searched by me on *Saturday* the 30th of *December* 1738. I felt a Stone the Moment my Instrument was introduced; which was likewise felt by Mr. *Wall*, his Apothecary, then present.

The *Tuesday* following, he began to take Mrs. *Stephens's* Medicines, and continued them eight Months.

On the 30th of *November* 1739. I saw him at *Child's* Coffee-house, when he told me, he was quite free from his usual Disorders: I there searched him again, in the Presence of several Physicians and Surgeons, who likewise felt for the Stone, but none could be found.

Mr. *Gardiner* dying on *Saturday* the 2d of *January* 1741-2. the next Morning, in the Presence of Mr. *St. Hill*, and Mr. *Wall*, I opened his Bladder, and therein observed six preternatural Apertures of different Sizes, the biggest capable of admitting the Top of my Finger. Each of these Openings led to a separate Bag, formed by an Inlargement of the internal Membrane of the Bladder, protruded between the Fibres of its muscular Coat.

These Bags are to be seen on the back Part of the Bladder, a little above the *Vesiculæ Seminales*; and when viewed on the Outside, seem to be but Two; though they are in Number equal to the Openings within, already mentioned; and divided from one another by the Duplicature of the internal Membrane, which forms a *Septum* between each of them.

In these *Sacculi*, or Bags, are contained nine Stones; the largest about the Size of a small Nutmeg; and with what Facility some of them moved out of, and returned into, the *Sacculi*, the following Circumstance will clearly evince.

When I had open'd the *Abdomen*, Mr. *St. Hill*, handling the Bladder, brought two of these Stones up to its *Fundus*, where they were felt by Mr. *Wall* and myself.— We then examined the Kidneys: The Right contained a little Matter, otherwise it was as it should be: But of the Left, Two-thirds were wasted; its *Pelvis* was contracted in Proportion, and the *Ureter* almost impervious.— Upon rehandling the Bladder, neither of us could feel any Stone; I therefore laid it open, and we found them all in the *Sacculi*. The Stones that are in one of these

these *Sacculi*, have been so much enlarged since their Lodgment, that without Force and Laceration they cannot be got out.

I am,

GENTLEMEN,

*Your most obedient,*

*Jan. 7. 1741-2.*

*and most humble Servant,*

Edward Nourse.

FIGURE *the First*, (See T A B.)

*Shews the Bladder cut open.*

1. 2. 3. 4. 5. 6. The preternatural Apertures opening into so many *Sacculi*, in which the Stones were contained.
7. 8. The two *Ureters*.
9. 10. Their Openings into the Bladder.
11. The Opening from the Bladder into the *Urethra*.
12. The prostrate Gland, which was scirrhus and enlarged.
13. The *Urethra* cut off.

FIGURE *the Second*,

*Shews the Back-part of the Bladder, upon which the external Membrane being taken away, the Fibres of its muscular Coat are very apparent.*

*A.* The Fibres of the *Detrusor Urinæ*.

*B. B*

*B. B.* The *Sacculi* formed by the internal Membrane, protruded between the Fibres of the *Detrusor Urinæ*.

*CCCCCCCCC.* The Stones, as they appear in the *Sacculi*, Eight in one, and One (the largest N<sup>o</sup> 6.) in the other.

*DD.* The *Ureters*.

*EE.* The *Vesiculæ Seminales* turned back, to shew the whole Extent of the *Sacculi*.

*FF.* The *Vasa Deferentia*.

*G.* The Back-part of the prostrate Gland.

1. 2. 3. 4. 5. 6. The Stones which came easily out of the *Sacculi*.

7. One of the Stones sawed, the *Nucleus* of which appears white, and the Surface of them all appears reddish.

#### IV. Some further Observations concerning Electricity, by J. T. Desaguliers, LL. D. F. R. S.

Dec. 14. 1741.

Read Jan. 14.  
1741-2.

**E**LECTRICS *per se* (which I have heretofore defin'd, *Bodies in which an Electrical Virtue may be raised by some Action on them*, such as Rubbing, Patting, Warming, &c.) are reduc'd to a Non-electric State by being in Contact with Non-electric Bodies, especially Water, which is the greatest Non-electric, even when it becomes Vapour.

A Non-electric (which though it cannot be made Electrical by any Action upon it) receives Electricity from